

Title (en)
INFLATABLE STRUCTURE FOR PACKAGING

Title (de)
AUFBLASBARE STRUKTUR FÜR VERPACKUNGEN

Title (fr)
STRUCTURE GONFLABLE POUR EMBALLAGE

Publication
EP 2709926 B1 20160914 (EN)

Application
EP 12723343 A 20120516

Priority
• US 201113109410 A 20110517
• US 2012038025 W 20120516

Abstract (en)
[origin: US2011247725A1] An inflatable structure may be formed from a single piece of flexible film. The inflatable structure may include quilting seals which divide the inflatable chamber. The inflatable structure may include a one-way valve including an internal valve opening, a channel, and an external valve opening. A locator aperture positioned in the channel may be surrounded by a valve position-retention seal. A corresponding inflation device fills the inflatable structure with air and may do so without requiring heat sealing or insertion into the one-way valve. The inflation device may include a mechanical registration device configured to engage the locator aperture and position the one-way valve at a desired position with respect to an outlet of a source of pressurized air. The inflation device may detect when the inflatable structure is filled with a desired amount of air and automatically shut off the source of pressurized air.

IPC 8 full level
B65D 81/05 (2006.01); **B65D 30/24** (2006.01); **B31D 5/00** (2006.01); **B65B 55/20** (2006.01); **F16K 15/20** (2006.01)

CPC (source: EP US)
B31D 5/0073 (2013.01 - EP US); **B65D 31/14** (2013.01 - EP US); **B65D 31/147** (2013.01 - US); **B65D 81/052** (2013.01 - EP US); **F16K 15/20** (2013.01 - EP US); **F17C 7/00** (2013.01 - US); **B31D 2205/007** (2013.01 - EP US); **F17C 2221/031** (2013.01 - US); **F17C 2250/0621** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2011247725 A1 20111013; **US 9085405 B2 20150721**; EP 2709926 A1 20140326; EP 2709926 B1 20160914; ES 2608589 T3 20170412; US 10160585 B2 20181225; US 2015321821 A1 20151112; WO 2012158735 A1 20121122

DOCDB simple family (application)
US 201113109410 A 20110517; EP 12723343 A 20120516; ES 12723343 T 20120516; US 2012038025 W 20120516; US 201514804081 A 20150720